GENERATOR COMMUNICATIONS INTERFACE STANDARD

BACKGROUND:

Every DRMO has access to a Hewlett Packard (HP) super mini computer (model 750 or 877). The primary use of this computer is for accountable record inventory management and control. The suite of software is called DAISY (DRMS Automated Information System). DRMO's are required to use the DLA Base Operations Support System (BOSS), to contract for the ultimate disposal of HW. BOSS is a mainframe system that runs at the DISA mega-center in Utah. Currently, DRMO personnel must enter receipt data into DAISY and for HW, they enter much of the same information into BOSS for HW Delivery Orders.

THE SHIP:

DRMS is developing SHIP (Single Hazardous Input Process). SHIP is a PC based applications that interfaces with both DAISY and BOSS. SHIP creates a centralized repository of hazardous waste data for reporting and tracking purposes, facilitates BOSS data entry and creates many HW reports which are hand written/typed today.

GENERATOR COMMUNICATIONS - GENCOMM:

Phase III of the SHIP project involves the electronic transfer of Waste Profile Sheet (WPS) and Disposal Turn in Document (DTID, DD.1348-1) data. This data will be placed on the DRMO computer prior to the actual turn in to DRMO. The DTID data will be placed in a "Due In" file. When the actual DTID data is entered in DAISY, the receiver enters the DTID number and DAISY will populate the fields of the HW receipt screen with the data from the "Due In" file. The WPS data, along with the DTID data will be passed to the SHIP PC. When the DRMO signs on to BOSS, the user will see a "false front end to BOSS." a graphical user interface (GUI), will facilitate data entry into BOSS. many of the required boss data entry screen elements will be populated from the ship database.

WHY GENCOMM?:

- Expedite the transfer of accountability from the Generator to the DRMO.

- Expedite the ultimate disposal of hazardous waste from the DOD supply chain.

- Reduce keystroke errors and lower data entry costs.

- Save on mail costs.

- Decrease paper handling.

- First step on the road to a paperless environment (EDI X12 - Electronic Data Interchange).

- Generators will retrain the choice of using current methods or using the electronic method.

HOW WILL IT WORK?:

- Generator creates an ASCII file in the GENCOMM format.
- Generator connects to the DRMO DAISY host via Internet (telnet or modem).
- Generator enters User ID and Password.
- User will be presented with three or more menu options:

1.   UPLOAD FILE
2.   REVIEW SESSION(S) LOG
3.   QUIT

If the "UPLOAD FILE" option is taken, the user will receive step by step instructions to accomplish the data transfer. note: must use the Kermit Binary Mode Exchange or FTP!.

FILE FORMAT FOR GENERATOR COMMUNICATIONS
(Version 4, 2/7/95)

1 Initially, the capability to electronically provide the DRMO with information about hazardous waste turn-in's will be limited to the following data; Waste Profile Sheet (WPS) and Disposal Turn In Document (DTID).

2. The basic "structure" for communicating this data will require a File Header, Section Header(s), Record(s) and a Section Trailer(s).

3. Fields are restricted to (a maximum of) the length indicated, unless noted as variable (V).

4. Fields will be delimited by the pipe symbol ("|"). However, there will not be a trailing "|".

5. Records will be delimited by the carriage return <CR> or the carriage return line feed (LF) combination.

A FILE MUST HAVE A FILE HEADER RECORD. THE FORMAT IS:

Mandatory (M)   Alpha (A)
Optional (O)   Numeric (N)
Alpha/Numeric (A/N)

M/O	Field Name	A, N or A/N	Field Length	Example, Format or Style
M	DoDAAC	A/N	6	The Generator DoDAAC i.e. FB2020
M	Date	N	5	Julian date the file was created i.e. 94332
M	Time	N	4	In the format HHMM
M	Form Version	A/N	5	DRMS File Format version Number (will start with (1.0.0)
M	DRMO RIC	A/N	4	DRMO RIC and Suffix
M	Form Version	A/N	V	Generator Software Release Version Number
M	End of Record Indicator **<CR>** or **LF**			

The header record will be followed by one or two sections (Waste Profile Sheet Section - WPS or Disposal Turn In Document Section - DTID). Each section can contain one or more records. A section must have a section header and a section trailer. Permissible combinations are: File Header (FH) and both WPS and DTID Sections (in that order), FH and WPS Section only, or FH and DTID section only.

At the end of <u>any </u>record there are three options:

> 1. Continue with the next record.
> 2. Terminate the section with a section trailer and start a new section.
> 3. Terminate the section with a section trailer and quit (Close the file).

THE FOLLOWING IS AN EXAMPLE FORMAT FOR A WPS SECTION WITH ONE RECORD

M/O	Field Name	A, N or A/N	Field Length	Example, Format or Style
M	WPS Section Header	A/N	12	A constant of "beg_wps_sect" **<CR>** or **LF**
M	Waste Profile Number	A/N	11	
M	Generator Name	A/N	30	
M	Facility Adds Line 1	A/N	30	
O	Facility Adds Line 2	A/N	30	
M	Facility Adds Line 3	A/N	30	City & State
M	Facility ZIP Cd Line 4	A/N	10	NNNNN-NNNN
O	Generator USEPA ID	A/N	13	
O	Generator State ID	A/N	13	
M	Technical Contact	A/N	30	
O	Technical Title	A	30	
M	Technical Phone	A/N	13	(NNN)NNN-NNNN
O	Name of Waste	A/N	30	
O	Process Generating Waste	A	20	
O	Projected Annual Volumns	N	10.4	NNNNNNNNNN.NNNN
O	Projected Annual Units	A	10	
O	Mode of Collection	A	15	
O	Dioxin Waste ?	A	1	Y/N
O	Land Disposal Restrictions ?	A	1	Y/N
O	Exemption Granted ?	A	1	Y/N
O	Meets Treatment Standards ?	A	1	Y/N
O	Treatment Standard Reference	A	30	
O	Color	A	30	
O	Density	N	3.3	NNN.NNN
O	BTU/LB	N	10	NNNNNNNNNN
O	Total Solids	N	3.2	This will contain a percent.
O	Ash Content	N	3.2	This will contain a percent.
O	Layering	A	12	MULTILAYERED, BILAYERED, SINGLE PHASE
O	Physical State	A	10	SOLID, LIQUID, SEMISOLID, GAS, OTHER
O	Treatment Group	A	1	W,N (W= Wastewater, N=Nonwastewater)
O	Ignitable (D001) ?	A	1	Y/N
O	Flash Point (F)	A/N	4.1	NNNN.N
O	High Toc (> 10 %)	A	1	Y/N
O	Low Toc (< 10 %)	A	1	Y/N
O	Reactive (D003) ?	A	1	Y/N
O	Water Reactive ?	A	1	Y/N
O	Cyanide Reactive ?	A	1	Y/N
O	Sulfide Reactive ?	A	1	Y/N
O	Corrosive (D002) ?	A	1	Y/N
O	Ph	N	2.1	
O	Toxicity Characteristic ?	A	1	Y/N
O	Corrodes Steel ?	A	1	Y/N
O	Copper Quantity	N	V	
O	Copper Units	A/N	3	
O	Phenolics Quantity	N	V	
O	Phenolics Units	A/N	3	
O	Nickel Quantity	N	V	

M/O	Field Name	A, N or A/N	Field Length	Example, Format or Style
O	Nickel Units	A/N	3	
O	Total Halogens Quantity	N	V	
O	Halogens Units	A/N	3	
O	Zinc Quantity	N	V	
O	Zinc Units	A/N	3	
O	Volatile Organics Quantity	N	V	
O	Volatile Organics Units	A/N	3	
O	Chromium Hex Quantity	N	V	
O	Chromium Units	A/N	3	
O	PCB Quantity	N	V	
O	PCB Units	A/N	3	
O	(Other) Description	A/N	30	
O	Other Quantity	N	V	
O	Other Units	A/N	3	
O	Dot Hazardous Material ?	A	1	Y/N
O	Proper Shipping Name	A/N	60	
O	Hazard Class	A/N	3	
O	UN or NA Number	A/N	6	
O	Additional Description	A/N	60	
O	Method of Shipment	A/N	30	BULK, DRUM or OTHER (Describe)
O	CERCLA Reportable Qty (RQ)	N	5	
O	CERCLA Unit of Issue	A/N	5	
O	Packing Group	A	3	
O	Emerg Resp Guide Page No	N	4	
O	Edition (yr)	N	2	
O	Special Handling Info	A/N	90	
O	Basis For Information	A	4	USER for user knowledge LAB for chemical analysis
O	RCRA Requirments	A	30	
O	Certifier Name	A	45	
M	End Of Record Indicator	**<CR>** or **LF**		

Chemical Composition Subsection. This subtransaction consists of a section header, four fields for each record (Chemical Name, Chemical Concentration, Chemical Range and CAS Number) and a section trailer.

M/O	Field Name	A, N or A/N	Field Length	Example, Format or Style
M	Composition Subsection Header	A/N	13	A constant of "beg_comp_sect"
		<CR> or **LF**		
M	Chemical Name	A	30	
M	Chemical Concentration	N	3.2	This is a percent.
M	Chemical Range	A	30	
M	CAS Number	A/N	10	Chemical Abstract Service Number
M	End of Record Indicator	**<CR>** or **LF**		
M	Composition Subsection Trailer	A/N	13	A constant of "end_comp_sect"

EPA Waste Number Subsection. This subtransaction consists of a section header, three fields for each record (EPA HW Number, Range and EPA Units) and a section trailer.

M/O	Field Name	A, N or A/N	Field Length	Example, Format or Style
M	EPA Waste No Subsect Header	A/N	12	A constant of "beg_ewn_sect" **<CR>** or **LF**
M	EPA HW Number	A/N	4	EPA HW Number i.e. D001
M	Range	N	20	Range of concentration
M	EPA Units	A/N	5	
M	End of Record Indicator **<CR>** or **LF**			
M	EPA Waste No Subsect Trailer	A/N	12	A constant of "end_ewn_sect"
M	WPS Section Trailer	A/N	12	A constant of "end_wps_sect"

THE FOLLOWING IS AN EXAMPLE FORMAT FOR A DTID SECTION WITH ONE DTID RECORD

M/O	Field Name	A, N or A/N	Field Length	Example, Format or Style
M	DTID Section Header	A/N	12	A constant of "beg_dtid_sect" **<CR>** or **LF**
M	Federal Supply Class	N	4	
M	NIIN/Local Stock Number	A/N	9	
O	Additional Data	A/N	2	
M	Document Number	A/N	15	Disposal Turn In Document Number
M	Unit of Issue	A	2	
M	Quantity	N	5	
O	Disposal Authority Cd	A	1	M=Approved, N=Not Reqd., R=Auth. Received
M	Hazardous Waste Code	A	1	A constant of "W"
M	Unit Price	N	5.2	NNNNN.NN (Acquisition Unit Price)
M	Item Nomenclature	A/N	29	
M	Supply Condition Code	A	1	
M	Demil Code	A	1	
O	Accumulation Start Date	N	5	Julian Date i.e. 94320
O	Waste Profile Sheet No	A/N	11	
O	MSDS Number	A/N	9	
O	Recpt Manifest Number	A/N	17	
O	Container Number	N	4	Alias "Drum Number"
O	Total Wt/Vol	N	6	
O	Wt/Vol Code	A	1	P= Pounds, T= Short Tons (2000 LB), G= Gallons, Y= Cubic Yards, K= Kilograms M= Tonnes (1000KG), L= Litres, C= Cubic Meters
O	Org Code	A/N	6	
O	Building	A/N	6	
O	Type Operation	A	20	i.e. Motor Pool, Spill Residue, Degreasing etc.
M	Contact Name	A	18	
M	Contact Phone	N	15	
O	Waste Description line 1	A/N	60	
O	Waste Description line 2	A/N	60	
O	Waste Description line 3	A/N	60	
O	Waste Description line 4	A/N	60	
O	Contract Number	A/N	13	
O	CLIN/HIN	A/N	6	
M	Total Disposal Cost	N	5.2	NNNNN.NN
M	Fund Code	A/N	2	
O	Bill to DoDAAC	A/N	6	
O	Pickup DoDAAC	A/N	6	
O	Number of Container	N	4	
M	End of Record Indicator **<CR>** or **LF**			
M	DTID Section Trailer	A/N	13	A constant of "end_dtid_sect"